

# SAFETY DATA SHEET



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## Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

<b>Product Name:</b>	<b>VetACE 2.5 mg Tablets for Dogs and Cats</b> <b>VetACE 5 mg Tablets for Dogs and Cats</b> <b>VetACE 20 mg Tablets for Dogs</b>
<b>Product Identifier:</b>	Benazepril hydrochloride tablets.
<b>Product Code:</b>	504045 (2.5 mg x 42 tabs) 504060 (5 mg x 42 tabs) 504055 (20 mg x 42 tabs)
<b>Recommended Use:</b>	For the treatment of heart failure in dogs due to mitral regurgitation (endocardiosis) and dilated cardiomyopathy. For the treatment of both hypertrophic cardiomyopathy and chronic renal insufficiency in cats.
<b>Restrictions on Use:</b>	For animal treatment only.
<b>Company Identification:</b>	Zoetis New Zealand Limited
<b>Address:</b>	Level 4, 8 Mahuhu Crescent, Auckland Centra, Auckland 1010, New Zealand
<b>Email:</b>	<a href="mailto:nzcontactus@zoetis.com">nzcontactus@zoetis.com</a>
<b>Customer Centre:</b>	0800 963 847 (Business Hours)
<b>Emergency Telephone Number:</b>	National Poisons Centre: 0800 POISON (0800 764 766) Emergency Services: In an emergency dial 111

## Section 2: HAZARDS IDENTIFICATION

**Hazard Classifications:** This product has been assessed according to GHS and is classified as non-hazardous.

**Signal word:** None.

**GHS Pictograms:** None.

**Precautionary Statements:** None.

## Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Benazepril hydrochloride	86541-74-4	1 - 15%
Ingredients not contributing to the hazards	-	To 100%

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## Section 4: FIRST AID MEASURES

**General Information:** Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

**Symptoms and Effects of Exposure:** The side effects of therapeutic use of benazepril include headache, cough, hypotension, dizziness, fatigue, nausea, angioedema (face, tongue and extremities) and dermatitis. The most significant sign of poisoning is likely to be marked hypotension.

**Inhalation:** If dusts or combustion products are inhaled remove patient from contaminated area. Other measures are usually not necessary. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen and seek medical assistance immediately.

**Ingestion:** If swallowed do NOT induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.

**Skin:** If skin contact occurs, wash affected area thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

**Eye:** If eye contact occurs: Immediately flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing for at least 20 minutes. If eye irritation persists, get medical advice/attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Recommended First Aid Facilities:** Ready access to running water and soap is required. Accessible eyewash is required.

**Advice to Doctor:** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Flash Point:** No data.

**Hazardous Combustion Products:** If involved in a fire, may emit noxious and irritant fumes.

**Extinguishing Media:** There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

**Protective Equipment:** Protective gloves and breathing apparatus.

**HAZCHEM Code:** None specified.

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## Section 6: ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For small spills, clean up spilled product then wipe area and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. For large spills, exclude non-essential people from the area. Prevent spillage from entering drains or water courses and call emergency services.

**Protective Clothing:** For appropriate personal protective equipment see section 8.

**Environmental Precautions:** Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

## Section 7: HANDLING AND STORAGE

**Handling:** Handle this product to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of dusts. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.

**Storage:** Keep out of reach of children. Store below 25°C (air conditioning), away from foodstuffs. Protect from heat and moisture. Unused half tablets should be returned to the open blister space and inserted back into the carton.

**Other Information:** Avoid contact with incompatible substances as listed in Section 10. Always read the label before use. See label for further information on handling and storage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.**

**Exposure Limits:** No exposure limits have been assigned for this product. The occupational toxicity risk is low from the tablet form. The occupational exposure standard for benazepril hydrochloride is 0.02 mg/m<sup>3</sup> (USA value).

**Engineering Controls:** No special ventilation requirements are normally necessary for this product. Ensure that the work environment remains clean and that dusts are minimised.

### Personal Protective Equipment (PPE):

**Eye protection:** Safety glasses with side shields or chemical goggles are recommended when handling bulk quantities of this product.

**Skin protection:** When handling bulk quantities, prevent skin contact by wearing chemical protective gloves e.g. PVC.

**Respiratory protection:** Not required for the normal use of this product.

**Other:** When handling bulk quantities of this product, overalls, PVC apron, barrier cream, skin cleansing cream and eye wash unit may be required.

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Round, concave, half-scored, tan/grey film coated (2.5 mg) tablets	<b>Upper Flammability Limits:</b>	Not available
	Round, concave, half-scored, yellow film coated (5 mg) tablets	<b>Lower Flammability Limits:</b>	Not available
	Round, concave, half-scored, red film coated (20 mg) tablets	<b>Vapour Pressure:</b>	Not applicable
<b>Odour:</b>	Not available	<b>Vapour Density:</b>	Not applicable
<b>Odour Threshold:</b>	Not available	<b>Relative Density:</b>	Not applicable
<b>pH:</b>	Not applicable	<b>Solubility in Water:</b>	Disintegrates in water
<b>Melting Point:</b>	Not available	<b>Partition coefficient</b>	Not available
<b>Boiling Point:</b>	Not applicable	<b>Auto-Ignition Temperature:</b>	Not available
<b>Flashpoint:</b>	Not available	<b>Decomposition Temperature:</b>	Not available
<b>Evaporation Rate:</b>	Not applicable	<b>Viscosity:</b>	Not applicable

## Section 10: STABILITY AND REACTIVITY

**Reactivity:** This product is unlikely to react or polymerise under normal storage conditions.

**Stability:** When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

**Conditions to Avoid:** Extreme temperatures and/or direct sunlight.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** Combustion products include carbon dioxide, nitrogen oxides, hydrogen chloride, phosgene and other pyrolysis products typical of burning organic material.

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## Section 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity:

**Ingestion:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the oral route.

Benazepril hydrochloride: Oral LD<sub>50</sub>: 4019 mg/kg (mouse), > 5000 mg/kg (rat);  
Oral LDLo: 1000 mg/kg (dog).

**Inhalation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

**Dermal:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

**Skin Corrosion / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be skin corrosive or irritant.

**Serious Eye Damage / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an eye irritant.

**Respiratory or Skin Sensitisation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin sensitiser or a respiratory sensitiser.

**Germ Cell Mutagenicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

**Carcinogenicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

**Reproductive Toxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a reproductive toxicant. At doses of 50 – 500 mg/kg/day, benazepril had no effect on the reproductive performance of male and female rats.

**STOT: Single exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after single exposure.

**STOT: Repeat exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after repeat exposure. Benazepril hydrochloride has been safely used in human patients for the chronic treatment of advanced congestive heart failure. Ref: Mirvis, D.M. *et al.* Am. J. Med Sci. 1990; 300 (6): 354 – 60.

**Aspiration hazard:** No data available.

**Narcotic Effects:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to have any narcotic effects.

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## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be toxic to the environment.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation potential	Mobility
Benazepril hydrochloride	No data	No data	No data	No data

## Section 13: DISPOSAL INFORMATION

**Product Disposal:** Dispose of product only by using according to label or at an approved landfill.

**Container Disposal:** Dispose of container by wrapping with paper and putting in garbage.

## Section 14: TRANSPORT INFORMATION

**Dangerous Goods Classification:** Not classed as a Dangerous Good for land, sea or air transport.

## Section 15: REGULATORY INFORMATION

**ACVM No.:** A09828 (2.5 mg); A09919 (5 mg); A09830 (20 mg)  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

**EPA Approval No.:** Not applicable.

## Section 16: OTHER INFORMATION

This information is based on data believed by Zoetis Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Zoetis Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

### Legend:

<b>ACVM</b>	Agricultural Compounds and Veterinary Medicines.
<b>CAS No.</b>	Chemical Abstracts Service Registry Number.
<b>EPA</b>	Environmental Protection Authority.
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals.
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
<b>LD<sub>50</sub></b>	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>LDLo</b>	Lethal Dose Low. The lowest dose of a substance that will cause death of the individual.
<b>PPE</b>	Personal Protective Equipment.
<b>PVC</b>	Polyvinyl Chloride.
<b>SDS</b>	Safety Data Sheet.
<b>STOT</b>	Specific Target Organ Toxicity.

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## References:

ChemID Plus  
EPA New Zealand Chemical Classification and Information Database (CCID)  
HSDB (Hazardous Substances Data Bank)

## Revision History:

Date of Revision	Reason
12 July 2016	Minor update to SDS format. Update to ACVM web address.
8 July 2021	Five year review. Minor changes to all sections. Addition of LDLo oral data in Section 11.
16 February 2023	Minor update to add Zoetis contact information.
12 September 2023	Change to Zoetis logo and removal of Jurox contact information.

**END OF SDS**